CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.07/BCN/CSR-03/1089/CEMENT/2015-16 Date: 08.03.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. B.C. Narayanappa,** #48, Bande Bommasandra, Bangalore East Taluk, Bangalore – 77.
*NAME OF THE WORK	:	Improvements to Roads in Mariyannapalya in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.
*REFERENCE	:	AEE/KSD/PR/299/2015-16 Dated: 05.03.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	05.03.2016
PERIOD OF TESTING	:	05.03.2016 to 08.03.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.07/BCN/CSR-03/1089/SAND-Gradation/2015-16 : 08.03.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. B.C. Narayanappa,**
#48, Bande Bommasandra, Bangalore East Taluk, Bangalore – 77.

* **Name of Work** : Improvements to Roads in Mariyannapalya in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KSD/PR/299/2015-16 Dated: 05.03.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 05.03.2016

Date of Testing : 08.03.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.00	90-100	90-100	90-100	95-100
2.36	73.00	60-95	75-100	85-100	95-100
1.18	51.50	30-70	55-90	75-100	90-100
600 Micron	28.00	15-34	35-59	60-79	80-100
300 Micron	12.80	5-20	8-30	12-40	15-50
150 Micron	3.80	0-10	0-10	0-10	0-15

AE-7

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

Civil-Tech Consultants & Engineers Bangalore

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory
3. Any Query regarding the report must be reported within 30 days from the date of testing.

****

VISHWANATH .C
Quality Manager

AE(7)

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.07/BCN/CSR-03/1089/AGG/GR/2015-16 : 08.03.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.C. Narayanappa,** #48, Bande Bommasandra, Bangalore East Taluk, Bangalore – 77.
* Name of Work	: Improvements to Roads in Mariyannapalya in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE/KSD/PR/299/2015-16 Dated: 05.03.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 05.03.2016
Date of Testing	: 08.03.2016

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.90	95-100	85-100
20	39.40	30-70	0-20
10	12.90	10-35	0-5
4.75	2.90	0-5	-

AE-7

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

****

VISHWANATH .C
Quality Manager

Asst.E.E.N.D
AE(7)

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.07/BCN/CSR-03/1089/CC Solid Block/2015-16 : 10.03.2016

TEST REPORT ON SOLID CONCRETE BLOCKS

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B.C. Narayanappa,**
#48, Bande Bommasandra, Bangalore East Taluk, Bangalore – 77.

*** Name of the Work** : Improvements to Roads in Mariyannapalya in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KSD/PR/299/2015-16 Dated: 05.03.2016

Sample Received on : 05.03.2016

Date of Testing : 10.03.2016

Size of Blocks : 400mm x 100mm x 200mm

Cross Sectional Area : 40000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	17.25	128.7	3.22	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	18.32	129.3	3.23	
3	Block 3	17.23	130.2	3.26	
4	Block 4	18.65	131.2	3.28	
5	Block 5	17.20	130.4	3.26	
6	Block 6	18.32	129.5	3.24	
7	Block 7	17.25	128.9	3.22	
8	Block 8	18.33	127.9	3.20	

AE-7

*Information is furnished by the Customer/Representative.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

****

VISHWANATH .C
Quality Manager

AE(7)

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.07/BCN/CSR-03/1089/CUBE/2015-16 11.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. B.C. Narayanappa,**
#48, Bande Bommasandra, Bangalore East Taluk, Bangalore – 77.

* **Name of the work** : Improvements to Roads in Mariyannapalya in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.

* **Reference** : AEE/KSD/PR/299/2015-16 Dated: 05.03.2016

* **Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 11.04.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2016	11.04.2016	8.165	478.3	21.26
2	14.03.2016	11.04.2016	8.298	492.3	21.88
3	14.03.2016	11.04.2016	8.310	510.2	22.68

AE-7

1

* Information is furnished by the Customer/Representative

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

****

VISHWANATH .C
Quality Manager

Rubpbly. N-P
AE(7)

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.07/BCN/CSR-03/1089/CUBE/2015-16 12.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. B.C. Narayanappa,**
#48, Bande Bommasandra, Bangalore East Taluk, Bangalore – 77.

* **Name of the work** : Improvements to Roads in Mariyannapalya in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.

* **Reference** : AEE/KSD/PR/299/2015-16 Dated: 05.03.2016

* **Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 12.04.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.03.2016	12.04.2016	8.169	480.2	21.34
2	15.03.2016	12.04.2016	8.280	490.6	21.80
3	15.03.2016	12.04.2016	8.330	505.5	22.47

AE-7

* Information is furnished by the Customer/Representative

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

****

VISHWANATH .C
Quality Manager

Civil-Tech Consultants & Engineers Bangalore

Apply. N.O
AE(7)

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.07/BCN/CSR-03/1089/CUBE/2015-16 13.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. B.C. Narayanappa,**
#48, Bande Bommasandra, Bangalore East Taluk, Bangalore – 77.

* **Name of the work** : Improvements to Roads in Mariyannapalya in Ward No.07, Kodigehalli Sub Division, BBMP, Bangalore.

* **Reference** : AEE/KSD/PR/299/2015-16 Dated: 05.03.2016

* **Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 13.04.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.03.2016	13.04.2016	8.280	482.5	21.44
2	16.03.2016	13.04.2016	8.390	506.3	22.50
3	16.03.2016	13.04.2016	8.419	519.3	23.08

AE-7

* Information is furnished by the Customer/Representative

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Civil-Tech Consultants & Engineers Bangalore

VISHWANATH .C
Quality Manager

****

AE(7)

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com